



SEQUENCE LISTING

<110> JANECKO, Richard A.

<120> POLYNUCLEOTIDES FOR USE AS TAGS AND TAG COMPLEMENTS IN THE
DETECTION OF NUCLEIC ACID SEQUENCES

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<140> US/10/625,755

<141> 2003-07-24

<150> US 60/398,037

<151> 2002-07-24

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<210> 696

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<210> 699

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<210> 713
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<210> 716

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<210> 717

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<210> 718

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<210> 722

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<210> 730

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<210> 731

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<210> 733

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<210> 734

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<210> 743

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<210> 744

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<210> 746

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<210> 747

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<210> 748

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24

<210> 749

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<210> 759
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tatatgtttg tgtaagaaga aatg 24

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gataatgtgt gaatttgatga ataa 24

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tagttaagat agagtaaag atag

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<210> 779

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<210> 785

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<210> 792

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<210> 793

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taagtagaaa gaagaagata ttg 24

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agaaagagaa ttatgtaatg aaag 24

<210> 797
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ttagatttgt tagtgtgatt taag 24

<210> 798
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gatgattaag atatagagat agtt

24

<210> 799

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24

<210> 800

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24

<210> 801

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24

<210> 802

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<210> 806
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24

<210> 807
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24

<210> 808
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ttaagagaga aataagtgta ttgt

24

<210> 809
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gatattgaaa tgtgtaaatg atga

24

<210> 810

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atgatgaatt aagaaagaaa gaga

24

<210> 811

<211> 24

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24

<210> 812

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24

<210> 813

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<210> 814

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<210> 816

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<210> 817

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<210> 818

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gaagatattg aaagaatttg atgt

24

<210> 819

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24

<210> 820

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agtgagtaag taatagaaag attt

24

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gtagaataag taatttgtga gata

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gagttatttg agatttagat gttt

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gaaatgatga ttgaatttag agat 24

<210> 825

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<210> 827

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<210> 828

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24

<210> 829

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24

<210> 830

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<210> 831

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<210> 832

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<210> 833

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<210> 834

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24

<210> 835

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24

<210> 836

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24

<210> 837
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24

<210> 838
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24

<210> 839
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<210> 840

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taaagtgagt gtaaatagata atga 24

<210> 842

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<210> 843

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<210> 844

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24

<210> 845

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<210> 846

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<210> 847

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 <210> 849
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 ttaagagtag tgaatatgat agta 24

 <210> 852
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 aatggtataa gatgagagtt tagt 24

 <210> 853
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<210> 855
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gatagtttag tatagaagat aaag

24

<210> 856
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Synthesized DNA Sequence

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gttgaatata gagatagtaa atag

24

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agagaagatt tagtaagaat gata

24

<210> 858
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tgaatgagaa agatattgag tatt

24

<210> 859

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24

<210> 860

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<210> 861

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24

<210> 862

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attaaagttg atatgaaaga agtg

24

<210> 863

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aatgtagaga ttgtagtgaa tatt

24

<210> 864

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24

<210> 866

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gatttgtata gagattagta agta

24

<210> 867

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24

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24

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<210> 889

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<210> 892

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<210> 893

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<210> 894

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<210> 896

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24

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<210> 900
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 <210> 902
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<210> 904
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24

<210> 905
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gtgttgatgaa taagattgaa atat

24

<210> 906
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aaagaaagta taaagtgaga taga

24

<210> 907
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24

<210> 908

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24

<210> 909

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24

<210> 910

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24

<210> 911

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24

<210> 912

<211> 24

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<210> 913

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24

<210> 914

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24

<210> 915

<211> 24

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24

<210> 916

<211> 24

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24

<210> 917

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<210> 918

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tatgtgtatg aagattatag ttag

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<210> 919
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gaaattgttg tatagagtga tata

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<210> 920
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24

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<210> 923

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<210> 924

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<210> 925

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agtttgatgt gatagtaa at agaa 24

<210> 926

<211> 24

<212> DNA

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Synthesized DNA Sequence

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aagtgttatt gaatgtgatg ttat

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<210> 927

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<210> 928

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gtttagtgat taaagataga ttag

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<210> 929

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ataagtgtat aagagaagtg ttaa

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<210> 930

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 <210> 932
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 <210> 933
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 <210> 934

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tatgaaagtg ttgtttaagt aaga

24

<210> 935
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taaagtaaatt gttatgtgag agaa

24

<210> 936
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24

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aagtgatatg aatatgtgag aaat 24

<210> 938

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<210> 939

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<210> 940

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<210> 941

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24

<210> 942

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24

<210> 943

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24

<210> 944

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<210> 945

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 <210> 947
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 <210> 948
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<210> 953
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<210> 954
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gattagatat agaattattga agag

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<210> 955
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<210> 956
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24

<210> 957

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gtaagtatta agtgtgattt agta

24

<210> 958

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Synthesized DNA Sequence

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ataaagagaa gtaaagagta aagt

24

<210> 959

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24

<210> 960

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24

<210> 961

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tagatgagat atatgaaaga tagt

24

<210> 962

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Synthesized DNA Sequence

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ataagaagat gatttgtgta aatg

24

<210> 963

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24

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gatttgtgag taaagtaa at agaa

24

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24

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gaaattagtg tttgtgtgta ttat

24

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24

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24

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24

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24

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gttgtttagag tgtttatgaa attt 24

<210> 972

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<210> 973

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Synthesized DNA Sequence

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<210> 974

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<210> 975

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24

<210> 976

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tttgaagtga tgttagaatg tttta

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<210> 977

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<212> DNA

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agttgttgtg taattgtag taaa

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<210> 978

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<212> DNA

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atagtgagaa gtgataagat attt

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<210> 979

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gtgtgataag taattgagtt aaat

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atagttgaat agtaatttga agag

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<210> 982

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atgttttgtgt ttgaatagag aata

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tgataaagat atgagagatt gtaa 24

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taaagatgag atgttgtaa agtt 24

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aagtgaaatt tgtaagaatt agtg 24

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gaaatgagag ttattgatag tta 24

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<210> 988

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gttaattgtg atatttgatt agtg 24

<210> 989

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agagtgttga taaagatggt tata 24

<210> 990

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aattgtgaga aattgataag aaga

24

<210> 991

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ttaaagagaa ttgagaagag aaat

24

<210> 992

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<212> DNA

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ttgttagaag aattgaatgt atgt

24

<210> 993

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agttaagata tgtgtgatgt ttaa

24

<210> 994

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 atgagtaata agagtatttg aagt 24

 <210> 997
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 <210> 999
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 <210> 1000
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<210> 1002
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 gagaattatg tgtgaatata gaaa 24

 <210> 1003
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 ttgattgata aagtaaagag tgta 24

 <210> 1004
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 gtgtgtaaaat tgaatatggtt aatg 24

 <210> 1005
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<400> 1005

aaagtaaaga aagaagtttg aaag 24

<210> 1006
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<400> 1006

tttagttgaa gaatagaaag aaag 24

<210> 1007
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<400> 1007

gtgtaataag agtgaatagt aatt 24

<210> 1008
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tattgaaata agagagattt gtga 24

<210> 1009
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atgagaaaga agaagttaag attt

24

<210> 1010

<211> 24

<212> DNA

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Synthesized DNA Sequence

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aagagtgagt atattgtaa agaa

24

<210> 1011

<211> 24

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tttgtaaagt gatgatgtaa gata

24

<210> 1012

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gatgttatgt gatgaaatat gtat

24

<210> 1013

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gtagaataaaa gtgttaaagt gtta

24

<210> 1014

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24

<210> 1015

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24

<210> 1016

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24

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gataagaaag tgaaatgtaa attg

24

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gatgaaagat gtttaaagtt tgtt

24

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Synthesized DNA Sequence

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agtgtaagta ataagtttga gaaa

24

<210> 1020
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gttgagaatt agaatttgat aaag 24

<210> 1021

<211> 24

<212> DNA

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ttaagaaatt tgtatgtggtt gttg 24

<210> 1022

<211> 24

<212> DNA

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agaagattta gatgaaatga gttt 24

<210> 1023

<211> 24

<212> DNA

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taagtttgag ataaagatga tatg 24

<210> 1024

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially

Synthesized DNA Sequence

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tgagatagtt tgtaatatgt ttgt

24

<210> 1025

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
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agtttgaaat tgtaagtttg atga

24

<210> 1026

<211> 24

<212> DNA

<213> Artificial Sequence

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24

<210> 1027

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<212> DNA

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Synthesized DNA Sequence

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agagatttgt aataagtatt gaag

24

<210> 1028

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<212> DNA

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 <210> 1029
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 tgaaatttga tgagagatat gtta 24

 <210> 1030
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 tgtgttaaagt atagtttatg ttag 24

 <210> 1031
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 tgaataagtg aaatagaatg aatg 24

 <210> 1032

<211> 24
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Synthesized DNA Sequence

<400> 1032

aaagaaagat tgtaataagt agag

24

<210> 1033
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Synthesized DNA Sequence

<400> 1033

aatgaaatag tgttaaatga gtgt

24

<210> 1034
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Synthesized DNA Sequence

<400> 1034

gtagataaag atgtgaatta tgat

24

<210> 1035
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Synthesized DNA Sequence

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gatagtatat gtgtgtatatt gttt 24

<210> 1036

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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atgtttgtag aaatgtttga agat 24

<210> 1037

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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aaatttgtag agagaaattt gttg 24

<210> 1038

<211> 24

<212> DNA

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Synthesized DNA Sequence

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tagaataaga ttagtaagtg taga 24

<210> 1039

<211> 24

<212> DNA

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Synthesized DNA Sequence

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tgatttagag aaatatgagt agaa 24

<210> 1040
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aatagagtat gttgtttatg agaa 24

<210> 1041
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gatgatgaag agtttattgt aaat 24

<210> 1042
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aagtaaagaa gaagaaatgt gtta 24

<210> 1043
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 <210> 1044
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 agaaagaatg ttgatttatg atgt 24

 <210> 1045
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 <210> 1046
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 Synthesized DNA Sequence

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 aatgataatt gttgagagag taat 24

 <210> 1047
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<212> DNA
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 gtttggttgaa agtgtaaagt atat 24

 <210> 1048
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 <210> 1049
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 ttgtgagaaa gaagtatata gaat 24

 <210> 1050
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<210> 1051
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Synthesized DNA Sequence

<400> 1051

gatagataga taagttaatt gaag

24

<210> 1052
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Synthesized DNA Sequence

<400> 1052

agagatgatt gtttatgtat tatg

24

<210> 1053
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Synthesized DNA Sequence

<400> 1053

aaagttaaga aattgtagtg atag

24

<210> 1054
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Synthesized DNA Sequence

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tttgatattg tttgtgagtg tata 24

<210> 1055
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atttgtagaa agttggttatg agtt 24

<210> 1056
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gatttgagta agtttataga tgaa 24

<210> 1057
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aagataaagt gagttgattt agat 24

<210> 1058
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Synthesized DNA Sequence

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gatattgtaa gatatgttgt aaag

24

<210> 1059

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1059

gtaagagtgt attgtaagtt aatt

24

<210> 1060

<211> 24

<212> DNA

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Synthesized DNA Sequence

<400> 1060

gtgtgattag taatgaagta tttta

24

<210> 1061

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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gtaagaaaga ttaagtgtta gtaa

24

<210> 1062

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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agtagaaagt tgaaattgat tatg

24

<210> 1063

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1063

taagagaagt tgagtaatgt attt

24

<210> 1064

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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gttaagaaat agtagataag tgaa

24

<210> 1065

<211> 24

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Synthesized DNA Sequence

<400> 1065

taagtaaatt gaaagtgtat agtg

24

<210> 1066
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Synthesized DNA Sequence

<400> 1066

aagatgtatg tttattgttg tgta

24

<210> 1067
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Synthesized DNA Sequence

<400> 1067

atttagaata tagtgaagag atag

24

<210> 1068
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Synthesized DNA Sequence

<400> 1068

gttatgaaag agtatgtgtt aaat

24

<210> 1069
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Synthesized DNA Sequence

<400> 1069

tattatgtga agaagaatga ttag 24

<210> 1070

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1070

taataagttg aagagaattg ttgt 24

<210> 1071

<211> 24

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Synthesized DNA Sequence

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tgatgtttga tgtaattggt aaag 24

<210> 1072

<211> 24

<212> DNA

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Synthesized DNA Sequence

<400> 1072

gtgaaagatt tgagtttgta taat 24

<210> 1073

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially

Synthesized DNA Sequence

<400> 1073

agagaatata gattgagatt tggt 24

<210> 1074

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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tttgagatgt gatgataaag ttaa 24

<210> 1075

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1075

gttgtaaatt gtagtaaaga agta 24

<210> 1076

<211> 24

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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gtgttatgat gttgtttgta ttat 24

<210> 1077

<211> 24

<212> DNA

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 attattgtgt agatgtatta agag 24

 <210> 1078
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 Synthesized DNA Sequence

 <400> 1078

 gttagaaaga tttagaagtt agtt 24

 <210> 1079
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 Synthesized DNA Sequence

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 ttgtgtatta agagagtga atat 24

 <210> 1080
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 Synthesized DNA Sequence

 <400> 1080

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 <210> 1081

<211> 24
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Synthesized DNA Sequence

<400> 1081

aatgagaaat agatagttat tgtg

24

<210> 1082
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aataagattg aattagtgag taag

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<210> 1084
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aatgtttgag agatttagta aaga 24

<210> 1085

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agtttagaat agaaatgtgt ttga 24

<210> 1086

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<210> 1087

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<210> 1088

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aagtgtgtta aagtaaagt agat 24

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agagatgttt atgttgtgaa ttaa 24

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<210> 1091
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<210> 1092
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 <210> 1097
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24

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24

<210> 1102
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tttatagaat tgagagaagt taag

24

<210> 1103
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<210> 1104
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<210> 1105
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<210> 1106
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<210> 1107
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24

<210> 1108

<211> 24

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aagagaataa tgtagagata taag

24

<210> 1109

<211> 24

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tgtgtaatag ttgttaatga gtaa

24

<210> 1110

<211> 24

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<213> Artificial Sequence

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tatagttgta gtttagatga atgt

24

<210> 1111

<211> 24

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<223> Description of Artificial Sequence:Artificially
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attgtgtag aatgatgta atag

24

<210> 1112

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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gtttgtatag tatttgattg atgt

24

<210> 1113

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<212> DNA

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agagtaaagt atgagttatg aata

24

<210> 1114

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Synthesized DNA Sequence

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gaaagtttaa gtgatgtata ttgt

24

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Synthesized DNA Sequence

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ttaaatgata aagagtagtg aagt

24

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Synthesized DNA Sequence

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ttaaatgtgt gagaagatga ataa

24

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Synthesized DNA Sequence

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atttgataa agtgaagaag agaa

24

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tgattagtat ttgtgaagag attt 24

<210> 1119

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<223> Description of Artificial Sequence:Artificially
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tttgaatgaa attgatgata gatg 24

<210> 1120

<211> 24

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agagtaagat taagaataag aaag 24

<210> 1121

<211> 24

<212> DNA

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attgaattga gaagtgaagt aaat 24

<210> 1122

<211> 24

<212> DNA

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24

<210> 1123

<211> 24

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24

<210> 1124

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gaaagttaga gaaatgtaga aatt

24

<210> 1125

<211> 24

<212> DNA

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gtgaataatg aagaagttat gtta

24

<210> 1126

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ttgtgaataa agtagatgtg ttat

24

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ttatatgata tgagtttgtg ttga

24

<210> 1128

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24

<210> 1129

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24

<210> 1130

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ttgtatttgt ataatgttga agag

24

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gtttgaaatt agtgtgagaa atat

24

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<210> 1134

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<210> 1135

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<210> 1136

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<210> 1137

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gatgtataaa gagtatgtta taag 24

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<210> 1139
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atgagaattt gttaaagaga aagt 24

<210> 1140
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aaagaattag tatgatagat gaga 24

<210> 1141
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 <210> 1144
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 <210> 1145
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<212> DNA
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 <210> 1146
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 <210> 1147
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 tagtgatgaa atttgagata gata 24

 <210> 1148
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 gaaagaaatt gaagagtttg atat 24

<210> 1149
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Synthesized DNA Sequence

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atttgagtat ttgtgtattg aatg

24

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Synthesized DNA Sequence

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24

<210> 1151
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Synthesized DNA Sequence

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ttaatagtga gagagtatat gtaa

24

<210> 1152
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Synthesized DNA Sequence

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attaagagag tgagtaaattg taaa

24

<210> 1153

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aagaatagat gagattagaa atag

24

<210> 1154

<211> 24

<212> DNA

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agtttaaaga gttagaattg aaag

24

<210> 1155

<211> 24

<212> DNA

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Synthesized DNA Sequence

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gtaagatttg ttgaataaag aaga

24

<210> 1156

<211> 24

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agagaaagaa gttaaagtga tatt 24

<210> 1157

<211> 24

<212> DNA

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Synthesized DNA Sequence

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taatagagaa gagatgtatg aata 24

<210> 1158

<211> 24

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Synthesized DNA Sequence

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ttattagtga taagtgaagt ttag 24

<210> 1159

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ataatgtaaa gatgagttta tgag 24

<210> 1160

<211> 24

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24

<210> 1161

<211> 24

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Synthesized DNA Sequence

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atgattattg tgtgtagaat taga

24

<210> 1162

<211> 24

<212> DNA

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Synthesized DNA Sequence

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tataaagata tagtagatga tgtg

24

<210> 1163

<211> 24

<212> DNA

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Synthesized DNA Sequence

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tttagttgag atgaagttat taga

24

<210> 1164
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Synthesized DNA Sequence

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attgaattga tatagtgtaa agtg

24

<210> 1165
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Synthesized DNA Sequence

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gaagaaagat tattgtattg agtt

24

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Synthesized DNA Sequence

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attgagtgtg gtgatttaga aata

24

<210> 1167
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Synthesized DNA Sequence

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aataaagtgt ttaagagtag agta 24

<210> 1168

<211> 24

<212> DNA

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Synthesized DNA Sequence

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gtagagataa ttgatgtgta attt 24

<210> 1169

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tgatcgtagc tacgccgcg 19

<210> 1170

<211> 16

<212> DNA

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Synthesized DNA Sequence

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<210> 1171

<211> 48

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1171

gattgtaaga ttgataaag tgtatccagg gaagcgtgtc accgtcgt 48

<210> 1172

<211> 24

<212> DNA

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Synthesized DNA Sequence

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tcatggcgac tgtccagctt tgtg 24

<210> 1173

<211> 24

<212> DNA

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Synthesized DNA Sequence

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gatttgtatt gattgagatt aaag 24

<210> 1174

<211> 24

<212> DNA

<213> Artificial Sequence

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tgattgtagt atgtattgat aaag 24

<210> 1175

<211> 24

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Synthesized DNA Sequence

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gattgtaaga ttgataaag tgta

24

<210> 1176

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Synthesized DNA Sequence

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gatttgaaga ttattggtaa tgta

24

<210> 1177

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Synthesized DNA Sequence

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gattgattat tgtgatttga attg

24

<210> 1178

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Synthesized DNA Sequence

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gatttgattg taaaagattg ttga

24

<210> 1179
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Synthesized DNA Sequence

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attggtaaatt tggtaaattga attg

24

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Synthesized DNA Sequence

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attggatttg ataaaggtaa atga

24

<210> 1181
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Synthesized DNA Sequence

<400> 1181

gtaagtaatg aatgtaaaag gatt

24

<210> 1182
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Synthesized DNA Sequence

<400> 1182

gattgattga ttgattgatt tgat 24

<210> 1183

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Synthesized DNA Sequence

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tgatgattaa agaaagtgat tgat 24

<210> 1184

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Synthesized DNA Sequence

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aaaggatttg attgataaag tgat 24

<210> 1185

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<212> DNA

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Synthesized DNA Sequence

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tgtagatttg tatgtatgta tgat 24

<210> 1186

<211> 24

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<223> Description of Artificial Sequence:Artificially

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gatttgataa agaaaggatt gatt 24

<210> 1187

<211> 24

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Synthesized DNA Sequence

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gattaaagtg attgatgatt tgta 24

<210> 1188

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aaagaaagaa agaaagaaag tgta 24

<210> 1189

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tgtaaaagga ttgatttgta tgta 24

<210> 1190

<211> 24

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 aaagtgtaga ttgattaaag aaag 24

 <210> 1191
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 aaagttgatt gattgaaaag gtat 24

 <210> 1192
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 ttgattgaga ttgattttga gtat 24

 <210> 1193
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 tgaattgatg aatgaatgaa gtat 24

 <210> 1194

<211> 24
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 gtaatgaagt atgtatgtaa gtaa 24

 <210> 1195
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 tgatgatttg aatgaagatt gatt 24

 <210> 1196
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 tgataaagtg ataaaggatt aaag 24

 <210> 1197
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tgatttgagt atttgagatt ttga 24

<210> 1198

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Synthesized DNA Sequence

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tgtagtaaga ttgattaaag gtaa 24

<210> 1199

<211> 24

<212> DNA

<213> Artificial Sequence

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gtataaagga ttgattttga aaag 24

<210> 1200

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gtatttgagt aagtaattga ttga 24

<210> 1201

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gatttgataa aggatttgta ttga 24

<210> 1203
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gattgtattg aagtattgta aaag 24

<210> 1204
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 Synthesized DNA Sequence

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tgatgatttt gatgaaaaag ttga 24

<210> 1205
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Synthesized DNA Sequence

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tgatttgaga ttaaagaaag gatt

24

<210> 1206

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
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tgattgaatt gagtaaaaag gatt

24

<210> 1207

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
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aaagtgtaaa aggatttgat gtat

24

<210> 1208

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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aaaggatttt gagatttgat tgaa

24

<210> 1209

<211> 24

<212> DNA
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 <210> 1211
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 <400> 1211

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 <210> 1212
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<210> 1213
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tgaagatttg aagtaattga aaag 24

<210> 1214
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Synthesized DNA Sequence

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tgaaaaagtg tagattttga gtaa 24

<210> 1215
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Synthesized DNA Sequence

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tgtatgaatg aagatttgat tgta 24

<210> 1216
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aaagttgagt attgatttga aaag 24

<210> 1217
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<400> 1217

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<210> 1218
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<400> 1218

aaagaaagga tttgtagtaa gatt 24

<210> 1219
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 Synthesized DNA Sequence

<400> 1219

gtaaaaagaa aggtataaag gtaa 24

<210> 1220
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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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gattaaagtt gattgaaaag tgaa

24

<210> 1221

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
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tgaaaaaggt aattgatgta tgaa

24

<210> 1222

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1222

aaaggattaa agtgaagtaa ttga

24

<210> 1223

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1223

atgaattggt atgtatatga atga

24

<210> 1224

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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tgaaatgaat gaatgatgaa attg

24

<210> 1225

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1225

attgattgtg aatgaaatga attg

24

<210> 1226

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1226

attgaaagat gaaaagatga aaag

24

<210> 1227

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1227

attgttgaaa agtgtaatga ttga

24

<210> 1228
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Synthesized DNA Sequence

<400> 1228

atgatgtaat gaaaagattg tgta

24

<210> 1229
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Synthesized DNA Sequence

<400> 1229

aaagattgaa agatgatgta attg

24

<210> 1230
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Synthesized DNA Sequence

<400> 1230

attgatgagt atattgtgta gtaa

24

<210> 1231
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Synthesized DNA Sequence

<400> 1231

aaagattgtg taattgatga tgaa 24

<210> 1232

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1232

aaaggtatat tgtgtaatga gtaa 24

<210> 1233

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1233

tgtaatgagt attgtaattg aaag 24

<210> 1234

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1234

gtataaagaa agattggtaa atga 24

<210> 1235

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially

Synthesized DNA Sequence

<400> 1235

ttgagtaatt gaattgtgaa atga

24

<210> 1236

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1236

tgtattgaat gaattgttga tgta

24

<210> 1237

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1237

tgtaattggt aaatgagtaa aaag

24

<210> 1238

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1238

tgaatgaaat tgatgagtat aaag

24

<210> 1239

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1239

gtaagtaaatt tgaaagattg atga

24

<210> 1240

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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gtaaatgatg atattggtat attg

24

<210> 1241

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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attggttgatg attgattgaa atga

24

<210> 1242

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1242

attgtgaagt ataaagatga ttga

24

<210> 1243

<211> 24
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Synthesized DNA Sequence

<400> 1243

atgaaaagtt gagtaaattg tgat

24

<210> 1244
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Synthesized DNA Sequence

<400> 1244

atgaattgaa agtgattgaa aaag

24

<210> 1245
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Synthesized DNA Sequence

<400> 1245

gtaaattgat gaaaagttga tgat

24

<210> 1246
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Synthesized DNA Sequence

<400> 1246

aaagtgatgt atatgagtaa attg 24

<210> 1247

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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gtaatgataa agatgatgat attg 24

<210> 1248

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1248

ttgaaaagat tggtaatgat atga 24

<210> 1249

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1249

aaagtgaaaa agattgattg atga 24

<210> 1250

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1250

attgatgaga ttgattattg tgta

24

<210> 1251

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1251

atgagattat tggatttgta gatt

24

<210> 1252

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1252

tgaagattat gaattggtaa gatt

24

<210> 1253

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1253

attggattat gagattatga ttga

24

<210> 1254

<211> 24

<212> DNA

<213> Artificial Sequence

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 Synthesized DNA Sequence

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 attgttgaat tggattaaag atga 24

 <210> 1255
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 Synthesized DNA Sequence

 <400> 1255

 aaagatgagt aagtaaattg gatt 24

 <210> 1256
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 Synthesized DNA Sequence

 <400> 1256

 aaaggtaaga ttattgatga aaag 24

 <210> 1257
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 Synthesized DNA Sequence

 <400> 1257

 attgatgaga ttaaagttga attg 24

 <210> 1258
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<212> DNA
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 Synthesized DNA Sequence

 <400> 1258

 gattattgga ttatgaaaag gatt 24

 <210> 1259
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 Synthesized DNA Sequence

 <400> 1259

 gatttgtaat tggtgagtaa atga 24

 <210> 1260
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 Synthesized DNA Sequence

 <400> 1260

 aaagaaagat tggtgagatt atga 24

 <210> 1261
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 Synthesized DNA Sequence

 <400> 1261

 gtataaagga ttttgaattg atga 24

<210> 1262
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Synthesized DNA Sequence

<400> 1262

ttgagattgt aaatgaattg ttga

24

<210> 1263
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Synthesized DNA Sequence

<400> 1263

gtatatattgat tgtgtaatga aaag

24

<210> 1264
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<220>
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Synthesized DNA Sequence

<400> 1264

tgatatgaat tggattattg gtat

24

<210> 1265
<211> 24
<212> DNA
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<220>
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Synthesized DNA Sequence

<400> 1265

atgaatgatg aatgatgatt attg 24

<210> 1266
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 <213> Artificial Sequence

<220>
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 Synthesized DNA Sequence

<400> 1266

atgaattgat tggattgtaa tgat 24

<210> 1267
 <211> 24
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<220>
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 Synthesized DNA Sequence

<400> 1267

gattgtaatt gagtaaattg atga 24

<210> 1268
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 <213> Artificial Sequence

<220>
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 Synthesized DNA Sequence

<400> 1268

gattattgga ttaaaggtaa atga 24

<210> 1269
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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1269

attgttgaat tgatgagatt tgat 24

<210> 1270

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1270

gattatgagt aaattgattg tgat 24

<210> 1271

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1271

gattattggt gatgaatgat attg 24

<210> 1272

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1272

tgtaaaagat tgaaaggtat gatt 24

<210> 1273

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1273

gtatttagat gagtttgтта gatt

24

<210> 1274

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1274

tgaagttatg taatagaaag tgat

24

<210> 1275

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1275

gtatgtattg tatgtagtta attg

24

<210> 1276

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1276

tgatatagat agttagatag atag

24

<210> 1277
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 Synthesized DNA Sequence

 <400> 1277

 atgatgatgt attgtagtta tgaa 24

 <210> 1278
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 <223> Description of Artificial Sequence:Artificially
 Synthesized DNA Sequence

 <400> 1278

 ttagtgaatg tattagttga tgta 24

 <210> 1279
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 Synthesized DNA Sequence

 <400> 1279

 gttagttaga ttattgtag ttag 24

 <210> 1280
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 Synthesized DNA Sequence

 <400> 1280

gttaattgtg tagtttgtaa ttga 24

<210> 1281

<211> 24

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<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1281

gttatgaaat agtgatattg ttag 24

<210> 1282

<211> 24

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<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1282

attgtagaa agttagatt aaag 24

<210> 1283

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1283

atgagtatgt tattagtgtg tgta 24

<210> 1284

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially

Synthesized DNA Sequence

<400> 1284

tgtaatagtg aagtttagatt gtat

24

<210> 1285

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1285

attgatagat gattagtttag ttga

24

<210> 1286

<211> 24

<212> DNA

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1286

atgagtttgt ttatgagatt aaag

24

<210> 1287

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1287

tgatgtttga ttatgatgta gtat

24

<210> 1288

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1288

atgagttagt tatgaattag atga 24

<210> 1289
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Synthesized DNA Sequence

<400> 1289

attgttagtg atgttagtaa ttag 24

<210> 1290
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Synthesized DNA Sequence

<400> 1290

tgatgtaagt attgatgtta gttt 24

<210> 1291
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Synthesized DNA Sequence

<400> 1291

gattgtaaat agaaagtgaa gtaa 24

<210> 1292

<211> 24
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 Synthesized DNA Sequence

 <400> 1292

 attgtgtatg aagtattgta tgat 24

 <210> 1293
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 Synthesized DNA Sequence

 <400> 1293

 atagtgatgt tatgaagatt gtta 24

 <210> 1294
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 <220>
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 Synthesized DNA Sequence

 <400> 1294

 ttagatgaat tgtgaagtat ttag 24

 <210> 1295
 <211> 24
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 <220>
 <223> Description of Artificial Sequence:Artificially
 Synthesized DNA Sequence

 <400> 1295

gtaagttatg attgatgtta tgaa 24

<210> 1296

<211> 24

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<210> 1297

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

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gattgtaagt aagattgtat attg 24

<210> 1298

<211> 24

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Synthesized DNA Sequence

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gtttgtattt agatgaatag aaag 24

<210> 1299

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Synthesized DNA Sequence

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gtttgatttg taatagtgat tgta 24

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tgtatgtagt atttagaaag atga 24

<210> 1301
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<210> 1302
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 Synthesized DNA Sequence

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ttagtgtagt aagtttaaag tgta 24

<210> 1303
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 Synthesized DNA Sequence

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 <210> 1304
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 Synthesized DNA Sequence

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 <210> 1305
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 Synthesized DNA Sequence

 <400> 1305

 atagtgtatg tagattatga gatt 24

 <210> 1306
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 <213> Artificial Sequence

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 Synthesized DNA Sequence

 <400> 1306

 ttgaatgatt agttgagtat gatt 24

 <210> 1307
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<212> DNA
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 Synthesized DNA Sequence

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 gtatgtaagt tagtatgatt tgaa 24

 <210> 1308
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 Synthesized DNA Sequence

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 tgtagtatat tgttgaattg tgat 24

 <210> 1309
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 Synthesized DNA Sequence

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 atagtgattg tatgtatgat aaag 24

 <210> 1310
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 Synthesized DNA Sequence

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 ttagtgattg atgtatattg aaag 24

<210> 1311
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 Synthesized DNA Sequence

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 gtaagattat gagttatgat gtaa 24

 <210> 1312
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 Synthesized DNA Sequence

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 <210> 1313
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 Synthesized DNA Sequence

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 gttagatttg tagtttaaag atag 24

 <210> 1314
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 Synthesized DNA Sequence

<400> 1314

ttagtgattg aaatgatgta gatt 24

<210> 1315
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<400> 1315

aaagtgtagt tattagttag ttag 24

<210> 1316
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 Synthesized DNA Sequence

<400> 1316

aaagaaagtg tatgatgtta ttag 24

<210> 1317 .
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<220>
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 Synthesized DNA Sequence

<400> 1317

gattgtatat tgtgtatgat gatt 24

<210> 1318
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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1318

ttgagattgt tatgatatga gtat

24

<210> 1319

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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atgagtatga ttgttatgat gttt

24

<210> 1320

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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tgatttagtg aaattgtgta ttag

24

<210> 1321

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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tgaatgtatg tagtatgttt gtta

24

<210> 1322

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1322

gttagtattg atgattatga gtta

24

<210> 1323

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1323

gtatattgtg atttagttga gatt

24

<210> 1324

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

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gttagtttaa agttgagatt gttt

24

<210> 1325

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1325

gtatattggt agatgagatt tgta

24

<210> 1326
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<220>
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Synthesized DNA Sequence

<400> 1326

tgatgtatgt tagtttatga atga

24

<210> 1327
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<212> DNA
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<220>
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Synthesized DNA Sequence

<400> 1327

tgtagtatgt aatgtagtat ttga

24

<210> 1328
<211> 24
<212> DNA
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<220>
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Synthesized DNA Sequence

<400> 1328

atgagttatg tattgagtta gtat

24

<210> 1329
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Synthesized DNA Sequence

<400> 1329

tgtatgatga ttatagttga gtaa 24

<210> 1330

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1330

attgatgaat gagtttgtat aaag 24

<210> 1331

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1331

ttgagtttat gattagaaag aaag 24

<210> 1332

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1332

tgatattgat gagttagtat tgaa 24

<210> 1333

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially

Synthesized DNA Sequence

<400> 1333

atagaaagtg aaatgagtat gtta

24

<210> 1334

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

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Synthesized DNA Sequence

<400> 1334

ttgatgtaga tttgatgtat atag

24

<210> 1335

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1335

ttgagattat agtgtagttt atag

24

<210> 1336

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<212> DNA

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Synthesized DNA Sequence

<400> 1336

tgatgttaga ttgtttgatt attg

24

<210> 1337

<211> 24

<212> DNA

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 Synthesized DNA Sequence

 <400> 1337

 tgtattagat agtgatttga atga 24

 <210> 1338
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 Synthesized DNA Sequence

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 gattatgatg aatgtagtat gtaa 24

 <210> 1339
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 Synthesized DNA Sequence

 <400> 1339

 tgaatgattg atatgaatag tgta 24

 <210> 1340
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 <210> 1341

<211> 24
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 Synthesized DNA Sequence

 <400> 1341

 tgtagtaatg atttgatgat aaag 24

 <210> 1342
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 Synthesized DNA Sequence

 <400> 1342

 tgaagattgt tattagtgat attg 24

 <210> 1343
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 Synthesized DNA Sequence

 <400> 1343

 gtatttgaat gatgtaatag tgta 24

 <210> 1344
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 <400> 1344

gtatatgatg tattagattg aaag 24

<210> 1345

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1345

aaagttagat tgaaagtgat aaag 24

<210> 1346

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1346

gtaagatggt gatatagaag atta 24

<210> 1347

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1347

taatatgaga tgaaagtgaa ttag 24

<210> 1348

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1348

ttagtgaaga agtatagttt attg 24

<210> 1349
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<400> 1349

gtagttgaga agatagtaat taat 24

<210> 1350
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<400> 1350

atgagatgat atttgagaag taat 24

<210> 1351
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<400> 1351

gatgtgaaga agatgaatat atat 24

<210> 1352
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 Synthesized DNA Sequence

 <400> 1352

 aaagtatagt aagatgtata gtag 24

 <210> 1353
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 Synthesized DNA Sequence

 <400> 1353

 gaagtaatat gagtagttga atat 24

 <210> 1354
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 Synthesized DNA Sequence

 <400> 1354

 ttgataatgt ttgtttgttt gtag 24

 <210> 1355
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 Synthesized DNA Sequence

 <400> 1355

 tgaagaagaa agtataatga tgaa 24

 <210> 1356
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<212> DNA
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 <400> 1356

 gtagattagt ttgaagtgaa taat 24

 <210> 1357
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 Synthesized DNA Sequence

 <400> 1357

 tatagtagtg aagatgatat atga 24

 <210> 1358
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 Synthesized DNA Sequence

 <400> 1358

 tataatgagt tgtagatat gttg 24

 <210> 1359
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 Synthesized DNA Sequence

 <400> 1359

 gttgtgaaat tagatgtgaa atat 24

<210> 1360
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Synthesized DNA Sequence

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taatgttgtag aataatgtag aaag 24

<210> 1361
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Synthesized DNA Sequence

<400> 1361

gtttatagtg aaatatgaag atag 24

<210> 1362
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Synthesized DNA Sequence

<400> 1362

attatgaagt aagttaatga gaag 24

<210> 1363
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Synthesized DNA Sequence

<400> 1363

gatgaaagta atgtttattg tgaa 24

<210> 1364
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<400> 1364

attattgaga tgtgaagttt gttt 24

<210> 1365
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 Synthesized DNA Sequence

<400> 1365

tgtagaagat gagatgtata atta 24

<210> 1366
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 Synthesized DNA Sequence

<400> 1366

taatttgagt tgtgtatata gtag 24

<210> 1367
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Synthesized DNA Sequence

<400> 1367

tgatattagt aagaagttga atag

24

<210> 1368

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1368

gttagttatt gagaagtgta tata

24

<210> 1369

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1369

gtagtaatgt taatgaatta gtag

24

<210> 1370

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1370

gtttgtttga tgtgattgaa taat

24

<210> 1371

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1371

gtaagtagta atttgaatat gtag

24

<210> 1372

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1372

gtttgaagat atgtttgaag tata

24

<210> 1373

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1373

atgataattg aagatgtaat gttg

24

<210> 1374

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1374

gtagatagta tagttgtaat gtta

24

<210> 1375
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Synthesized DNA Sequence

<400> 1375

gatgtgaatg taatatgttt atag

24

<210> 1376
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Synthesized DNA Sequence

<400> 1376

tgaaattagt ttgtaagatg tgta

24

<210> 1377
<211> 24
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Synthesized DNA Sequence

<400> 1377

tgtagtataa agtatatgaa gtag

24

<210> 1378
<211> 24
<212> DNA
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Synthesized DNA Sequence

<400> 1378

atatgttggtt gagttgatag tata 24

<210> 1379

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1379

attattgagt agaaagatag aaag 24

<210> 1380

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1380

gttggttgaat attgaatata gttg 24

<210> 1381

<211> 24

<212> DNA

<213> Artificial Sequence

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Synthesized DNA Sequence

<400> 1381

atgagaagtt agtaatgtaa atag 24

<210> 1382

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially

Synthesized DNA Sequence

<400> 1382

tgaaatgaga agattaatga gttt

24

<210> 1383

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1383

atgttttagtg aaaagtttagt attg

24

<210> 1384

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially
Synthesized DNA Sequence

<400> 1384

atgttagtga atagtatagt attg

24